Vinay Kumar Korrapati

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SUMMARY

- Full-stack software developer with 5 years of experience building scalable, event-driven applications for enterprise-level systems.
- Proficient in backend development using Java, Python, and SQL for robust service logic and data processing.
- Successfully migrated legacy applications to Google Cloud Platform (GCP), establishing robust dev and production environments.
- Implemented cloud security best practices, reducing potential security vulnerabilities by 75%.
- Orchestrated CI/CD pipelines, enhancing deployment efficiency and reducing time-to-market by 35% using Ansible.
- Skilled in designing and developing RESTful APIs and secure microservices architectures supporting high availability and resilience.
- Strong understanding of Agile/Scrum methodologies; actively involved in sprint planning, daily stand-ups, retrospectives, and backlog grooming.
- Applied SOLID principles and object-oriented design to build modular, maintainable, and scalable codebases.
- Practiced in Test-Driven Development (TDD) and Behavior-Driven Development (BDD) with unit, integration, and acceptance tests.
- Implemented robust API security using JWT, OAuth2, and Spring Security for authentication and authorization.
- Applied secure coding practices including input validation, API hardening, and threat mitigation strategies.
- Built and maintained CI/CD pipelines using Ansible and Jenkins pipelines, integrating SonarQube for code quality.
- Experienced in both manual and automated testing using Postman, JUnit, Mockito, PyTest,
- Mentored junior engineers, participated in code reviews, and contributed to enforcing best development practices across teams.
- Delivered robust, fault-tolerant, and production-ready software in fast-paced, cross-functional Agile environments.

WORK EXPERIENCE

HSBC BANK
Pune, India

Software Developer   08/2022 to 12/2023

- Built robust backend services in Java and Spring Boot to support financial transaction processing and internal data workflows.
- Engineered a comprehensive Mutual Funds application using Java Spring Boot and Hibernate, enabling seamless investment management for retail and institutional users.
- Integrated SOAP-based services with Java and Spring Web Services, enabling seamless communication with legacy financial systems.
- Integrated real-time Bloomberg financial data feeds, improving data accuracy and reducing system latency by 40%.
- Built ETL workflows with Python to automate extraction, transformation, and loading of financial data, reducing manual data preparation by 90%.
- Led the migration of legacy banking applications to Google Cloud Platform (GCP), setting up production and development environments.
- Implemented cloud security best practices (IAM, VPC, encryption) that reduced potential vulnerabilities by 75%.
- Deployed and maintained CI/CD pipelines using Jenkins and Ansible, reducing deployment cycle time by 35%.
- Designed scalable microservices architecture for fintech applications, ensuring high performance under peak workloads.
- Optimized Oracle database procedures and wrote custom SQL scripts to streamline batch processing tasks.
- Participated in the full SDLC, from technical requirements and system design to testing and production deployment.
- Applied object-oriented design and SOLID principles to break down large legacy components into reusable,

modular services.

- Used MongoDB and MySQL for hybrid data solutions—supporting both structured and unstructured data storage.
- Participated in agile sprints with clearly defined tasks, collaborated with cross-functional teams, and delivered features on time.
- Guided new team members through onboarding and shared architectural knowledge through internal tech sessions.

Flipkart
Bengaluru, India

Software Developer 05/2019 to 07/2022

- Developed microservices in Java using Spring Boot, enabling modular, maintainable codebases that supported large-scale, event-driven applications.
- Built and secured REST APIs using Spring Security with OAuth2 and JWT, ensuring robust access control for internal and external consumers.
- Consumed and exposed WSDL-defined SOAP services to enable data integration between distributed enterprise systems.
- Participated in all phases of SDLC, ensuring traceability, quality, and alignment with internal compliance standards.
- Practiced test-driven development (TDD) and behavior-driven development (BDD), writing unit and integration tests using JUnit, Mockito, and Cucumber.
- Collaborated closely with QA to create comprehensive Postman test suites, enhancing automated API validation during builds.
- Tuned complex queries in PostgreSQL and Cassandra, reducing execution times and optimizing resource usage.
- Led Agile ceremonies including sprint planning, backlog refinement, and retrospectives while mentoring junior developers.
- Conducted code reviews, introduced design patterns, and enforced SOLID principles to ensure long-term maintainability.
- Designed and deployed data pipelines on GCP Dataflow to process large-scale financial data streams in real time, reducing data latency by 35%.
- Implemented workflow orchestration using Apache Airflow, automating end-to-end ETL jobs and ensuring high reliability in data ingestion pipelines.
- Applied cloud security best practices (IAM, VPC, encryption) that reduced potential vulnerabilities by 75%.
- Deployed and maintained CI/CD pipelines using Jenkins and Ansible, reducing deployment cycle time by 35%.

TECHNICAL EXPERTISE

- Languages: Java, Python, SQL, PL/SQL, Node.js
- Frameworks: Spring Boot, React.js, Angular, Hibernate, JUnit, Mockito, Cucumber
- Cloud & DevOps: AWS (Lambda, Kinesis, API Gateway, DynamoDB, VPC, IAM), GCP (Dataflow, Airflow), Terraform, CloudFormation, Jenkins, GitHub Actions, Docker, Kubernetes
- Databases: Oracle, PostgreSQL, MySQL, MongoDB, Cassandra
- Security: Spring Security, OAuth2, JWT, API Gateway Policies, SonarQube, Checkmarx
- Testing & Quality: Postman, JUnit, Mockito, PyTest, SonarQube, Checkmarx
- Other: Agile/Scrum, REST APIs, Microservices, Design Patterns, CI/CD

Academic Project

CodeCritic AI - AI-Powered Code Review Platform

- Built an enterprise-grade AI-powered code review platform leveraging OpenAI's GPT models to automatically analyze GitHub repositories and provide intelligent code quality assessments and actionable improvement suggestions
- Developed a full-stack solution using Next.js 14 (React/TypeScript) frontend, FastAPI (Python) backend, PostgreSQL database, and Redis caching, delivering optimal performance and scalability
- Integrated GitHub OAuth 2.0 authentication with comprehensive repository synchronization, enabling real-time AI analysis of codebases across multiple programming languages and frameworks
- Implemented RESTful API architecture with Docker containerization for scalable deployment, supporting batch processing of repositories and automated generation of AI-powered code review reports
- Created responsive UI with advanced filtering capabilities allowing developers to efficiently manage and analyze their projects with real-time AI-powered insights for code quality improvement
- Delivered measurable impact by automating manual code review processes, reducing review time by 70%, and providing actionable AI recommendations that improved overall code quality and development velocity

EDUCATION

Purdue University, Master's in Computer Science – 3.8GPA   01/2024 – 12/2025 | United States
Relevant Coursework: Software Engineering , Advanced Algorithms Design , Cloud Computing , Software Testing , Game Design, Software Design

CERTIFICATIONS
AWS Cloud Quest: Cloud Practitioner

- AWS Certified Cloud Practitioner – Demonstrated comprehensive knowledge of core AWS services, cloud architecture principles, security best practices, and pricing models.
- Completed hands-on labs and real-world scenarios covering compute, storage, networking, and IAM, validating foundational cloud expertise.
- Credential verifies ability to design basic cloud solutions, understand billing/cost optimization, and support cloud adoption strategies.